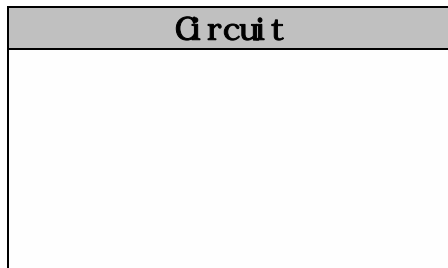


## Glass Passivated Three Phase Rectifier Bridge

**VRRM** 800 to 1800V  
**ID** 280 A

### Applications

Three phase rectifiers for power supplies  
Rectifiers for DC motor field supplies



### Features

Three phase bridge rectifier  
Blocking voltage:800 to 1800V  
Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate  
Glass passivated chip

### Module Type

TYPE	VRRM	VRSM
MD280S08M3	800V	900V
MD280S12M3	1200V	1300V
MD280S16M3	1600V	1700V
MD280S18M3	1800V	1900V

### Maximum Ratings

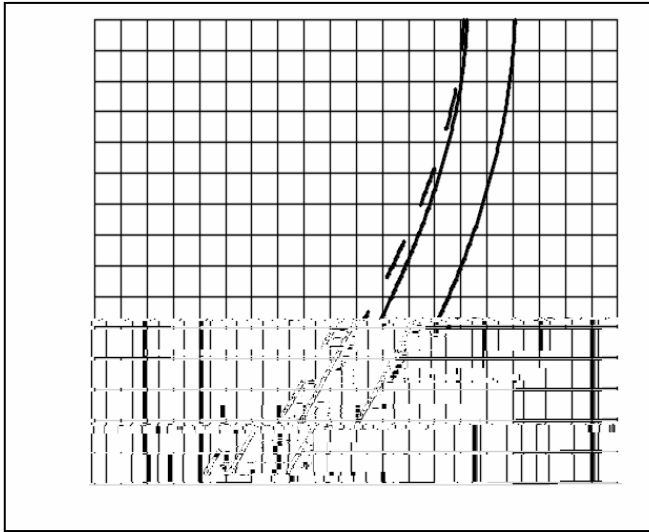
Symbol	Conditions	Values	Units
ID	Three phase, full wave Tc=100	280	A
IFSM	t=10mS Tvj =45	2550	A
i <sup>2</sup> t	t=10mS Tvj =45	32500	A <sup>2</sup> s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to +150	
Tstg		-40 to +125	
Mt	To terminals(M6)	5±15%	Nm
Ms	To heat sink(M6)	5±15%	Nm
Weight	Module (Approximately)	230	g

### Thermal Characteristics

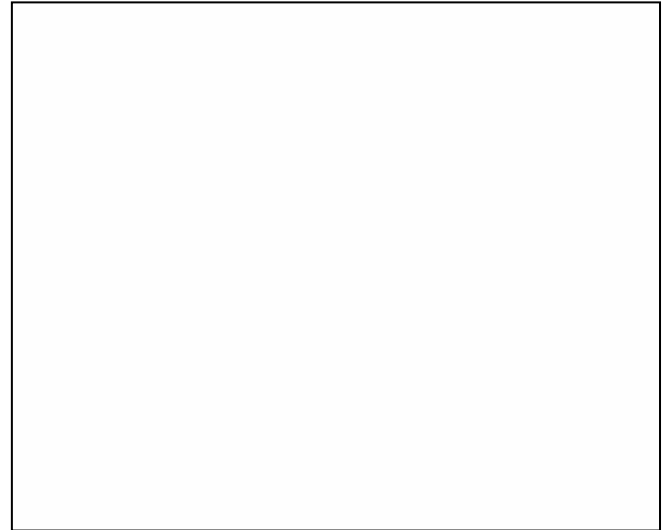
Symbol	Conditions	Values	Units
Rth(j-c)	Per diode	0.3	/W
Rth(c-s)	Module (Approximately)	0.02	/W

### Electrical Characteristics

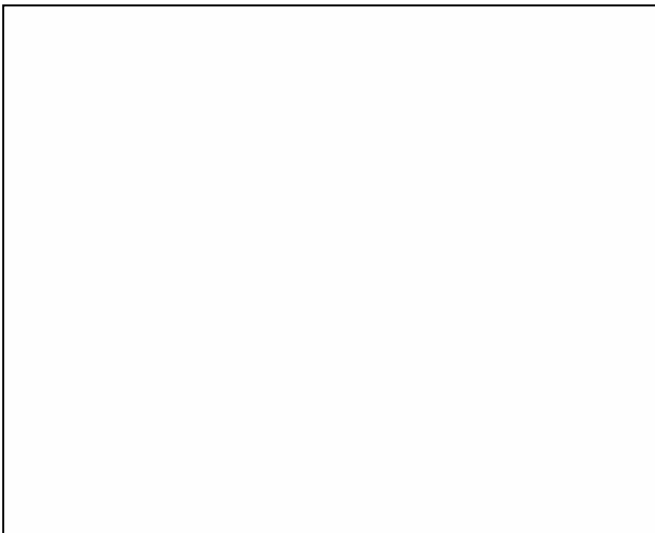
**Performance Curves**



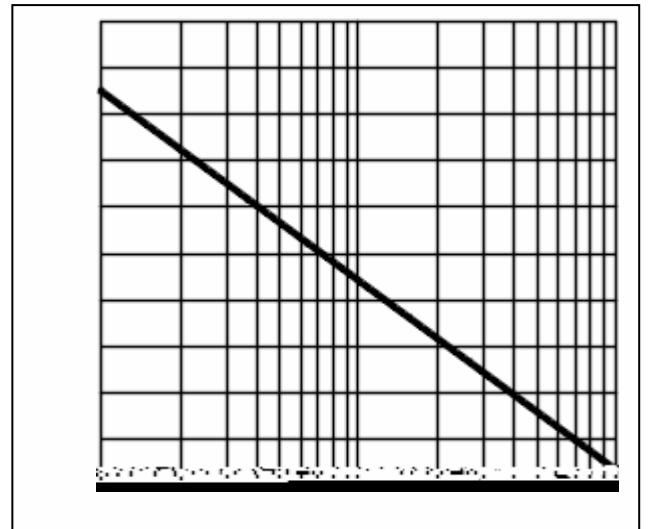
**Fig1. Forward Characteristics**



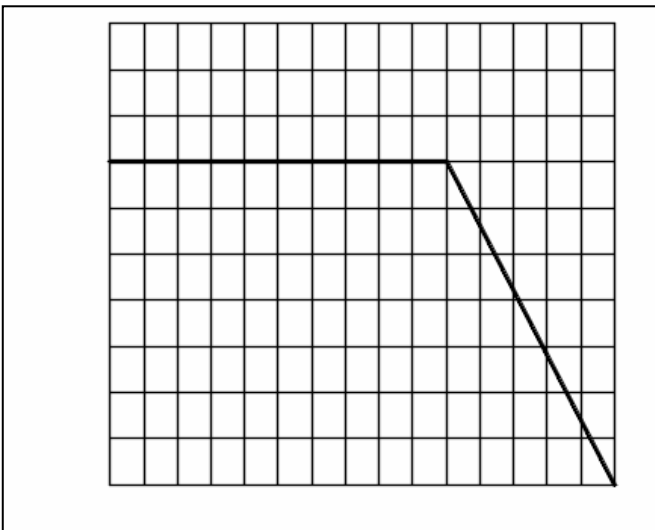
**Fig2. Power dissipation**



**Fig3. Transient thermal impedance**



**Fig4. Max Non-Repetitive Forward Surge Current**





Package Outline Information

CASE M3

